CPU Selection

■ CPU Rack

Name	Specifications			Standards	Part number
CPUs (See note.) 	I/O bits	Program capacity	Data memory capacity	---	---
	5,120	250K steps	448K words (DM: 32K words, EM: 32K words ×13 banks)	N, L, UC, CE, CID2	**CS1H-CPU67H**
	5,120	120K steps	256K words (DM: 32K words, EM: 32K words ×7 banks)		**CS1H-CPU66H**
	5,120	60K steps	128K words (DM: 32K words, EM: 32K words ×3 banks)		**CS1H-CPU65H**
	5,120	30K steps	64K words (DM: 32K words, EM: 32K words ×1 bank)		**CS1H-CPU64H**
	5,120	20K steps	64K words (DM: 32K words, EM: 32K words ×1 bank)		**CS1H-CPU63H**
	5,120	60K steps	128K words (DM: 32K words, EM: 32K words ×3 banks)		**CS1G-CPU45H**
	1,280	30K steps	64K words (DM: 32K words, EM: 32K words ×1 bank)		**CS1G-CPU44H**
	960	20K steps	64K words (DM: 32K words, EM: 32K words ×1 bank)		**CS1G-CPU43H**
	960	10K steps	64K words (DM: 32K words, EM: 32K words ×1 bank)		**CS1G-CPU42H**
CPU Backplanes (for CS1 Units only)	2 slots (Does not connect to Expansion Rack.)			U, C, N, L, CE	**CS1W-BC022**
	3 slots				**CS1W-BC032**
	5 slots				**CS1W-BC052**
	8 slots				**CS1W-BC082**
	10 slots				**CS1W-BC102**
CPU Backplanes 	2 slots (Does not connect to Expansion Rack.)			U, C, N, L, CE	**CS1W-BC023**
	3 slots				**CS1W-BC033**
	5 slots				**CS1W-BC053**
	8 slots				**CS1W-BC083**
	10 slots				**CS1W-BC103**
Power Supply Units 	100 to 120 VAC or 200 to 240 VAC; Output capacity: 4.6 A, 5 VDC			U, C, N, L, CE	**C200HW-PA204**
	100 to 120 VAC or 200 to 240 VAC (with 0.8 A, 24 VDC service power supply) Output capacity: 4.6 A, 5 VDC				**C200HW-PA204S**
	100 to 120 VAC or 200 to 240 VAC (with RUN output) Output capacity: 4.6 A, 5 VDC			U, C	**C200HW-PA204R**
	100 to 120 VAC or 200 to 240 VAC (with RUN output) Output capacity: 9 A, 5 VDC			U, C, N, L, CE	**C200HW-PA209R**
	24 VDC, Output capacity: 4.6 A, 5 VDC			U, C, N, L, CE	**C200HW-PD024**
I/O Control Unit	For Expansion Racks connected over a distance of more than 12 m (2 terminating resistors included. C200H Modules cannot be used on Long-distance Expansion Racks.)			U, C, CE, N	**CS1W-IC102**

(This table continues on the next page.)

Note: When using a CS1W-CN313 or CS1W-CN713 I/O Connecting Cable with a CS1□-CPU□□H CPU, use only Cables produced on or after September 20, 2001 (production number 2091). Cables with no production number, or produced before September 20, 2001, cannot be used.

Reading the production number

□□□□

- Year (e.g., 1997=7)
- Month (1 to 9, X (10), Y (11), Z (12))
- Day (01 to 31)

CPU Rack (continued)

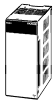
Name	Specifications		Standards	Part number
Memory Cards 	Flash memory, 15 MB		L, CE	**HMC-EF172 (See note.)**
	Flash memory, 30 MB			**HMC-EF372 (See note.)**
	Flash memory, 64 MB			**HMC-EF672 (See note.)**
	Memory Card Adapter (for computer PCMIA slot)		CE	**HMC-AP001**
Serial Communications Boards	2 × RS-232C ports, protocol macro function		U, C, N, L, CE	**CS1W-SCB21-V1**
	1 × RS-232C port + 1 × RS-422/485 port, protocol macro function			**CS1W-SCB41-V1**
Programming Consoles 	An English Keyboard Sheet (CS1W-KS001-E) is required. (Connects to peripheral port on CPU Unit only. Cannot be connected to RS-232C port.)		U, C, N, CE	**CQM1-PRO01-E**
				C200H-PRO27-E
Programming Console Key Sheet	For C200H-PRO27 and CQM1-PRO01		CE	**CS1W-KS001-E**
Programming Console Connecting Cables 	Connects the CQM1-PRO01-E Programming Console. (Length: 0.05 m)			**CS1W-CN114**
	Connects the C200H-PRO27-E Programming Console. (Length: 2.0 m)			**CS1W-CN224**
	Connects the C200H-PRO27-E Programming Console. (Length: 6.0 m)			**CS1W-CN624**
CX-Programmer	For 1 license	Windows-based Support Software for ladder programming on Windows 95, 98, Me, NT 4.0, 2000, or XP (Connects to peripheral port on CPU Unit or RS-232C port on CPU Unit or Serial Communications Unit/Board.)	---	**WS02-CXPC1-EV3**
	For 3 licenses			**WS02-CXPC1-EV3 L03**
	For 10 licenses			**WS02-CXPC1-EV3 L10**
Peripheral Device Connecting Cables (for peripheral port)	Connects DOS computers, D-Sub 9-pin receptacle (Length: 0.1 m) (Conversion cable to connect RS-232C cable to peripheral port)		CE	**CS1W-CN118**
	Peripheral bus or Host Link	Connects DOS computers, D-Sub 9-pin (Length: 2.0 m)		**CS1W-CN226**
		Connects DOS computers, D-Sub 9-pin (Length: 6.0 m)		**CS1W-CN626**
Peripheral Device Connecting Cables (for RS-232C port)	Peripheral bus or Host Link, antistatic	Connects DOS computers, D-Sub 9-pin (Length: 2.0 m)	---	**XW2Z-200S-CV * CBL-202**
		Connects DOS computers, D-Sub 9-pin (Length: 5.0 m)		**XW2Z-500S-CV**
	Host Link	Connects DOS computers, D-Sub 9-pin (Length: 2.0 m)		**XW2Z-200S-V * CBL-202**
		Connects DOS computers, D-Sub 9-pin (Length: 5.0 m)		**XW2Z-500S-V**
CX-Simulator	Windows-based Support Software for simulating ladder program operation on Windows 95, 98, Me, NT 4.0, 2000, or XP		---	**WS02-SIMC1-E**
CX-Protocol	Windows-based Protocol Creation Software for Windows 95, 98, Me, NT 4.0, 2000, or XP		---	**WS02-PSTC1-E**
Battery Set	For CS1 Series only. (Install a replacement battery within 2 years of the production date.)		L, CE	**CS1W-BAT01**

Note: 1. HMC-EF172/EF372/EF672 flash memory cannot be used with CS1G-CPU□□H, CS1H-CPU□□H, CJ1G-CPU□□H, or CJ1H-CPU□□H Modules predating lot number 020108 (i.e., manufactured before January 8, 2002) or with NS-7-series products predating lot number 0852 (i.e., manufactured before May 8, 2002) cannot be used together.

2. * Indicates availability in Canada only.

Expansion Racks

■ Expansion Racks

Name	Specifications		Standards	Part number
CS1 Expansion Backplanes (for CS1 Modules only)	3 slots		U, C, N, L, CE	**CS1W-BI032**
	5 slots			**CS1W-BI052**
	8 slots			**CS1W-BI082**
	10 slots			**CS1W-BI102**
CS1 Expansion Backplanes 	3 slots		U, C, N, L, CE	**CS1W-BI033**
	5 slots			**CS1W-BI053**
	8 slots			**CS1W-BI083**
	10 slots			**CS1W-BI103**
C200H Expansion I/O Backplanes 	3 slots		U, C, N, L, CE	**C200HW-BI031**
	5 slots			**C200HW-BI051**
	8 slots			**C200HW-BI081-V1**
	10 slots			**C200HW-BI101-V1**
Power Supply Modules 	100 to 120 VAC or 200 to 240 VAC, Output capacity: 4.6 A, 5 VDC			**C200HW-PA204**
	100 to 120 VAC or 200 to 240 VAC (with service supply: 0.8 A, 24 VDC), Output capacity: 4.6 A, 5 VDC			**C200HW-PA204S**
	100 to 120 VAC or 200 to 240 VAC (with RUN output) Output capacity: 4.6 A, 5 VDC		U, C	**C200HW-PA204R**
	24 VDC		U, C, N, L, CE	**C200HW-PD024**
	100 to 120 VAC or 200 to 240 VAC (with RUN output) Output capacity: 9 A, 5 VDC		U, C, N, L, CE	**C200HW-PA209R**
I/O Interface Unit	For Expansion Racks connected over a distance of more than 12 m. (C200H Modules cannot be used on Long-distance Expansion Racks.)		U, C, CE	**CS1W-II102**
CS1 I/O Connecting Cables (See note.)	Connects CS1 Expansion I/O Backplanes to CPU Backplanes or other CS1 Expansion I/O Backplanes.	Length: 0.3 m	L, CE	**CS1W-CN313**
		Length: 0.7 m		**CS1W-CN713**
		Length: 2 m		**CS1W-CN223**
		Length: 3 m		**CS1W-CN323**
		Length: 5 m		**CS1W-CN523**
		Length: 10 m		**CS1W-CN133**
		Length: 12 m		**CS1W-CN133-B2**
Long-distance Expansion Rack Cables	Connect I/O Control Unit to I/O Interface Unit or connects two I/O Interface Modules	Length: 0.3 m	N, L, CE	**CV500-CN312**
		Length: 0.6 m	N, CE	**CV500-CN612**
		Length: 1 m		**CV500-CN122**
		Length: 2 m	CE	**CV500-CN222**
		Length: 3 m		**CV500-CN322**
		Length: 5 m		**CV500-CN522**
		Length: 10 m		**CV500-CN132**
		Length: 20 m		**CV500-CN232**
		Length: 30 m		**CV500-CN332**
		Length: 40 m		**CV500-CN432**
		Length: 50 m		**CV500-CN532**

(This table continues on the next page.)

Note: When using a CS1W-CN313 or CS1W-CN713 I/O Connecting Cable with a CS1□-CPU□□H CPU Unit, use only Cables produced on or after September 20, 2001 (production number 2091). Cables with no production number, or produced before September 20, 2001, cannot be used.

Reading the production number

□□□□

- Year (e.g., 1997=7)
- Month (1 to 9, X (10), Y (11), Z (12))
- Day (01 to 31)

Expansion Racks (continued)

Name	Specifications		Standards	Part number
CS1 to C200H I/O Connecting Cables	Connects C200H Expansion I/O Backplanes to CPU Backplanes or CS1 Expansion I/O Backplanes.	Length: 0.3 m	L, CE	**CS1W-CN311**
		Length: 0.7 m		**CS1W-CN711**
		Length: 2 m		**CS1W-CN221**
		Length: 3 m		**CS1W-CN321**
		Length: 5 m		**CS1W-CN521**
		Length: 10 m		**CS1W-CN131**
		Length: 12 m		**CS1W-CN131-B2**
C200H I/O Connecting Cables	Connects C200H Expansion I/O Backplanes to other C200H Expansion I/O Backplanes.	Length: 0.3 m	N, L, CE	**C200H-CN311**
		Length: 0.7 m		**C200H-CN711**
		Length: 2 m		**C200H-CN221**
		Length: 5 m	L, CE	**C200H-CN521**
		Length: 10 m		**C200H-CN131**

■ C200H Basic I/O Modules

Name	Specifications	Mountable Racks					Bits allocated (CIO 0000 to CIO 0319)	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long distance Racks	SYSMAC BUS Slave Racks			
DC Input Modules 	12 to 24 VDC, 8 inputs	Yes	Yes	Yes	No	Yes	16	U, C, N, L, CE	**C200H-ID211**
	24 VDC, 16 inputs	Yes	Yes	Yes	No	Yes	16		**C200H-ID212**
AC Input Modules 	100 to 120 VAC, 8 inputs	Yes	Yes	Yes	No	Yes	16	U, C, N, L	**C200H-IA121**
	100 to 120 VAC, 16 inputs	Yes	Yes	Yes	No	Yes	16		**C200H-IA122**
	100 to 120 VAC, 16 inputs	Yes	Yes	Yes	No	Yes	16	CE	**C200H-IA122V**
	200 to 240 VAC, 8 inputs	Yes	Yes	Yes	No	Yes	16	U, C, N, L	**C200H-IA221**
	200 to 240 VAC, 16 inputs	Yes	Yes	Yes	No	Yes	16		**C200H-IA222**
	200 to 240 VAC, 16 inputs	Yes	Yes	Yes	No	Yes	16	CE	**C200H-IA222V**
AC/DC Input Modules 	12 to 24 VAC/VDC, 8 inputs	Yes	Yes	Yes	No	Yes	16	U, C, N, L, CE	**C200H-IM211**
	24 VAC/VDC, 16 inputs	Yes	Yes	Yes	No	Yes	16		**C200H-IM212**
B7A Input Modules 	16 inputs	Yes	Yes	Yes	No	Yes	16	U, C, CE	**C200H-B7AI1**
	32 inputs	Yes	Yes	Yes	No	No (See note 2.)	32	U, C	**C200H-B7A12**
Interrupt Input Unit 	12 to 24 VDC, 8 inputs	Yes	Yes (See note 1.)	Yes (See note 1.)	No (See note 1.)	No	16	U, C, CE	**C200HS-INT01**

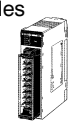
(This table continues on the next page.)

Note: 1. Interrupt Input Modules can only be used to input interrupts on the CPU Rack. They will function as normal I/O Modules on other Racks.

2. C200H-B7A12/02/21/22are C200H Group-2 Modules.

Basic I/O Modules

C200H Basic I/O Modules (continued)

Name	Specifications	Mountable Racks					Bits allocated (CIO 0000 to CIO 0319)	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long distance Racks	SYSMAC BUS Slave Racks			
Relay Bit Output Modules 	250 VAC/24 VDC, 2 A, 8 outputs max.	Yes	Yes	Yes	No	Yes	16	U, C, N	**C200H-OC221**
	250 VAC/24 VDC, 2 A, 12 outputs max.	Yes	Yes	Yes	No	Yes	16		**C200H-OC222**
	250 VAC/24 VDC, 2 A, 12 outputs max.	Yes	Yes	Yes	No	Yes	16	CE	**C200H-OC222N**
	250 VAC/24 VDC, 2 A, 16 outputs max.	Yes	Yes	Yes	No	Yes	16	U, C, N, L	**C200H-OC225**
	250 VAC/24 VDC, 2 A, 16 outputs max.	Yes	Yes	Yes	No	Yes	16	CE	**C200H-OC226N**
	250 VAC/24 VDC, 2 A, independent contacts, 5 outputs max.	Yes	Yes	Yes	No	Yes	16	U, C, N, L	**C200H-OC223**
	250 VAC/24 VDC, 2 A, independent contacts, 8 outputs max.	Yes	Yes	Yes	No	Yes	16		**C200H-OC224**
	250 VAC/24 VDC, 2 A, independent contacts, 8 outputs max.	Yes	Yes	Yes	No	Yes	16	CE	**C200H-OC224N**
Transistor Output Modules 	12 to 48 VDC, 1 A, 8 sinking outputs	Yes	Yes	Yes	No	Yes	16	U, C, N, L, CE	**C200H-OD411**
	24 VDC, 2.1 A, 8 sinking outputs	Yes	Yes	Yes	No	Yes	16		**C200H-OD213**
	24 VDC, 0.8 A, 8 sourcing outputs, load short-circuit protection.	Yes	Yes	Yes	No	Yes	16	U, C, N, L	**C200H-OD214**
	5 to 24 VDC, 0.3 A, 8 sourcing outputs	Yes	Yes	Yes	No	Yes	16		**C200H-OD216**
	24 VDC, 0.3 A, 12 sinking outputs	Yes	Yes	Yes	No	Yes	16	U, C, N, L, CE	**C200H-OD211**
	5 to 24 VDC, 0.3 A, 12 sourcing outputs	Yes	Yes	Yes	No	Yes	16		**C200H-OD217**
	24 VDC, 0.3 A, 16 sinking outputs	Yes	Yes	Yes	No	Yes	16		**C200H-OD212**
	24 VDC, 1 A, 16 sourcing outputs, load short-circuit protection.	Yes	Yes	Yes	No	Yes	16	CE	**C200H-OD21A**
B7A Output Modules 	16 outputs	Yes	Yes	Yes	No	Yes	16	U, C, CE	**C200H-B7AO1**
	32 outputs	Yes	Yes	Yes	No	No (See note 2.)	32	U, C	**C200H-B7A02**

(This table continues on the next page.)

Note: 1. Interrupt Input Modules can only be used to input interrupts on the CPU Rack. They will function as normal I/O Modules on other Racks.

2. C200H-B7A12/02/21/22are C200H Group-2 Modules.

C200H Basic I/O Modules (continued)

Name	Specifications	Mountable Racks					Bits allocated (CIO 0000 to CIO 0319)	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long distance Racks	SYSMAC BUS Slave Racks			
Triac Output Modules 	250 VAC, 1.2 A, 8 outputs	Yes	Yes	Yes	No	Yes	16	CE	**C200H-OA223**
	250 VAC, 0.3 A, 12 outputs	Yes	Yes	Yes	No	Yes	16		**C200H-OA222V**
	250 VAC, 0.5 A, 12 outputs	Yes	Yes	Yes	No	Yes	16	U, C, N, L	**C200H-OA224**
Analog Timer Unit 	4-point timer	Yes	Yes	Yes	No	Yes	16	U, C	**C200H-TM001**
	External Variable Resistor Connector:	---						---	**C4K-CN223**

Note: 1. Interrupt Input Modules can only be used to input interrupts on the CPU Rack. They will function as normal I/O Modules on other Racks.

2. C200H-B7A12/02/21/22are C200H Group-2 Modules.

3. The C200H-ID001 (no-voltage contacts, 8 inputs, NPN) and C200H-ID002 (no-voltage contacts, 8 inputs, PNP) cannot be used.

■ C200H Group-2 High-density I/O Modules

Name	Specifications	Mountable Racks					Bits allocated (CIO 0000 to CIO 0319)	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long-distance Racks	SYSMAC BUS Slave Racks			
DC Input Modules 	24 VDC, 32 inputs	Yes	Yes	Yes	No	No	32	U, C, N, L, CE	**C200H-ID216**
	24 VDC, 64 inputs	Yes	Yes	Yes	No	No	64		**C200H-ID217**
	24 VDC, 32 inputs, 6 mA	Yes	Yes	Yes	No	No	32	U, C, CE	**C200H-ID218**
	24 VDC, 64 inputs, 6 mA	Yes	Yes	Yes	No	No	64		**C200H-ID219**
	12 VDC, 64 inputs	Yes	Yes	Yes	No	No	64	U, C	**C200H-ID111**
Transistor Output Modules	16 mA/4.5 V to 100 mA/26.4 V, 32 sinking outputs	Yes	Yes	Yes	No	No	32	U, C, N, L, CE	**C200H-OD218**
	0.5 A/ 24 VDC, 32 sourcing outputs, load short-circuit protection	Yes	Yes	Yes	No	No	32	U, C, CE	**C200H-OD21B**
	16 mA/4.5 V to 100 mA/26.4 V, 64 sinking outputs	Yes	Yes	Yes	No	No	64	U, C, N, L, CE	**C200H-OD219**
B7A Input Modules	32 inputs	Yes	Yes	Yes	No	No (See note.)	32	U, C	**C200H-B7A12**
B7A Output Modules	32 outputs	Yes	Yes	Yes	No	No (See note.)	32		**C200H-B7A02**
B7A I/O Modules	16 inputs, 16 outputs	Yes	Yes	Yes	No	No (See note.)	16		**C200H-B7A21**
	32 inputs, 32 outputs	Yes	Yes	Yes	No	No (See note.)	32		**C200H-B7A22**

(This table continues on the next page.)

Note: The C200H-B7A12/02/21/22are C200H Group-2 Modules.

High-Density I/O Modules

■ C200H Group-2 High-density I/O Modules

Part	Connection		Remarks	Standards	Part number
Applicable connector	Soldered (included with Unit)		From Fujitsu Socket: FCN-361J040-AU Connector bar: FCN-360C040-J2	---	**C500-CE404**
	Crimped		From Fujitsu Socket: FCN-363J040 Connector bar: FCN-360C040-J2 Contacts: FCN-363J-AU		**C500-CE405**
	Pressure welded		From Fujitsu: FCN-367J040-AU		**C500-CE403**
Terminal block connection parts	1:1 connections	Special Cable	For CS1W-ID231/ID261/OD231/OD232/OD261/OD262/MD261/ MD262 and C200H-ID216/ID217/ID218/ID219/ID111/OD218/OD21B/OD219		**XW2Z-□□□B (See note 1.)**
		Terminal Block Unit			**XW2B-40G4**
					XW2B-40G5
					XW2D-40G6
	1:2 connections	Special Cable			**XW2Z-□□□D (See notes 1 and 2.)**
		Terminal Block Unit			**XW2B-20G4**
					XW2B-20G5
					XW2D-20G6
					XW2C-20G5-IN16

Note: 1. Refer to the XW2□ Connector-Terminal Block Conversion Unit catalog for details. (Square boxes indicate the cable length.)

2. The XW2Z-□□□D, CS1W-OD□□□, and C200H-OD□□□ cannot be connected. Only the inputs of the CS1W-MD□□□ can be connected.

■ CS1 High-density I/O Modules

Name	Specifications	Mountable Racks					Bits allocated (CIO 0000 to CIO 0319)	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long-distance Racks	SYSMAC BUS Slave Racks			
DC Input Modules	24 VDC, 16 inputs, 7 mA	Yes	No	Yes	Yes	No	16	UC, N, CE, CID2	**CS1W-ID211**
	24 VDC, 32 inputs, 6 mA	Yes	No	Yes	Yes	No	32		**CS1W-ID231**
	24 VDC, 64 inputs, 6 mA	Yes	No	Yes	Yes	No	64		**CS1W-ID261**
	24 VDC, 96 inputs, approx. 5 mA	Yes	No	Yes	Yes	No	96	U, C, N, L, CE	**CS1W-ID291**
AC Input Modules	100 to 120 VAC, 100 to 120 VDC, 16 inputs	Yes	No	Yes	Yes	No	16	UC, N, CE, CID2	**CS1W-IA111**
	200 to 240 VAC, 16 inputs	Yes	No	Yes	Yes	No	16	UC, N, CE	**CS1W-IA211**
Interrupt Input Unit	24 VDC, 16 inputs, 7 mA	Yes	No	Yes (See note.)	Yes (See note.)	No	16	UC, N, CE, CID2	**CS1W-INT01**
High-speed Input Unit	24 VDC, 16 inputs, 7 mA	Yes	No	Yes	Yes	No	16		**CS1W-IDP01**
Safety Relay Unit	24 VDC, 2 channels with 4 inputs each, 4 pts/common	Yes	No	Yes	Yes	No	16	U, C, CE	**CS1W-SF200**

(This table continues on the next page.)

CS1 High-density I/O Modules (continued)

Name	Specifications	Mountable Racks					Bits allocated (CIO 0000 to CIO 0319)	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long-distance Racks	SYSMAC BUS Slave Racks			
Relay Output Modules	250 VAC or 120 VDC, independent contacts, 8 outputs, 2 A	Yes	No	Yes	Yes	No	16	UC, N, CE, CID2	**CS1W-OC201**
	250 VAC or 120 VDC, 16 outputs, 2 A	Yes	No	Yes	Yes	No	16		**CS1W-OC211**
Transistor Output Modules 	12 to 24 VDC, 0.5 A, 16 sinking outputs	Yes	No	Yes	Yes	No	16	UC, N, CE, CID2	**CS1W-OD211**
	24 VDC, 0.5 A, 16 sourcing outputs	Yes	No	Yes	Yes	No	16	U, C, N, CE	**CS1W-OD212**
	12 to 24 VDC, 0.5 A, 32 sinking outputs	Yes	No	Yes	Yes	No	32	U, C, N, CE, CID2	**CS1W-OD231**
	24 VDC, 0.5 A, 32 sourcing outputs	Yes	No	Yes	Yes	No	32	U, C, N, CE	**CS1W-OD232**
	12 to 24 VDC, 0.3 A, 64 sinking outputs	Yes	No	Yes	Yes	No	64	UC, N, CE, CID2	**CS1W-OD261**
	24 VDC, 0.3 A, 64 sourcing outputs	Yes	No	Yes	Yes	No	64		**CS1W-OD262**
	12 to 24 VDC, 0.1 A, 96 sinking outputs	Yes	No	Yes	Yes	No	96	U, C, N, L, CE	**CS1W-OD291**
	12 to 24 VDC, 0.1 A, 96 sourcing outputs	Yes	No	Yes	Yes	No	96		**CS1W-OD292**
Triac Output Unit	250 VAC, 1.2 A, 8 outputs	Yes	No	Yes	Yes	No	16	UC, N, CE	**CS1W-OA201**
	250 VAC, 0.5 A, 16 outputs	Yes	No	Yes	Yes	No	16		**CS1W-OA211**
DC Input/ Transistor Output Modules 	24 VDC, 6 mA, 32 inputs, 12 to 24 VDC, 0.3 A, 32 sinking outputs	Yes	No	Yes	Yes	No	Inputs: 32 Outputs: 32	UC, N, CE, CID2	**CS1W-MD261**
	24 VDC, 6 mA, 32 inputs, 24 VDC, 0.3 A, 32 sourcing outputs	Yes	No	Yes	Yes	No	Inputs: 32 Outputs: 32	U, C, N, CE	**CS1W-MD262**
	5 VDC, 3.5 mA, 32 inputs, 5 VDC, 3.5 mA, 32 outputs	Yes	No	Yes	Yes	No	Inputs: 32 Outputs: 32	UC, N, CE	**CS1W-MD561**
	24 VDC, approx. 5 A, 48 inputs, 12 to 24 VDC, 0.1 A, 48 outputs, sinking inputs/outputs	Yes	No	Yes	Yes	No	Inputs: 48 Outputs: 48	U, C, N, L, CE	**CS1W-MD291**
	24 VDC, approx. 5 A, 48 inputs, 12 to 24 VDC, 0.1 A, 48 outputs, sourcing inputs/outputs	Yes	No	Yes	Yes	No	Inputs: 48 Outputs: 48		**CS1W-MD292**

Note: Interrupt input is not available when mounted on these Racks (i.e., used as normal I/O Unit).

■ Connectors for CS1 High-density I/O Modules

Part	Connection		Remarks	Standards	Part number
Applicable connectors	Soldered (included with Unit)		From Fujitsu Socket: FCN-361J056-AU Connector bar: FCN-360C056-J3	---	**CS1W-CE561**
	Crimped		From Fujitsu Socket: FCN-363J056 Connector bar: FCN-360C056-J3 Contacts: FCN-363J-AU		**CS1W-CE562**
	Pressure welded		From Fujitsu: FCN-367J056-AU		**CS1W-CE563**
Terminal block	1:1	Special Cable	For CS1W-ID291/OD291/OD292/ MD291/MD292		**XW2Z-□□□H-1 (see note.)**
		Terminal Block Unit			**XW2B-60G4**
					XW2B-60G5
	1:2	Special Cable			**XW2Z-□□□H-2 (see note.)**
		Terminal Block Unit			**XW2B-20G4**
					XW2B-20G5
					XW2D-20G6
					XW2B-40G4
					XW2B-40G5
					XW2D-40G6
	1:3	Special Cable			**XW2Z-□□□H-3 (see note.)**
		Terminal Block Unit			**XW2B-20G4**
					XW2B-20G5
					XW2D-20G6

Note: Refer to the XW2□ Connector-Terminal Block Conversion Unit catalog for details. (Square boxes indicate the cable length.)

■ C200H High-density I/O Modules Classified as Special I/O Modules

Name 	Specifications	Mountable Racks					Unit No	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long-distance Racks	SYSMAC BUS Slave Racks			
DC Input Modules	24 VDC, 32 inputs	Yes	Yes	Yes	No	Yes	0 to 9	U, C, N, L, CE	**C200H-ID215**
TTL Input Modules	5 VDC, 32 inputs	Yes	Yes	Yes	No	Yes			**C200H-ID501**
Transistor Output Modules	24 VDC, 32 sinking outputs	Yes	Yes	Yes	No	Yes			**C200H-OD215**
TTL Output Modules	5 VDC, 32 sinking outputs	Yes	Yes	Yes	No	Yes			**C200H-OD501**
TTL I/O Modules	5 VDC, 16 inputs, 16 sinking outputs	Yes	Yes	Yes	No	Yes			**C200H-MD501**
DC Input/Transistor Output Modules	24 VDC, 16 inputs, 16 sinking outputs	Yes	Yes	Yes	No	Yes			**C200H-MD215**
	12 VDC, 16 inputs, 16 sinking outputs	Yes	Yes	Yes	No	Yes		U, C, N, L	**C200H-MD115**

■ Connectors for C200H High-density I/O Modules

Part	Connection	Remarks	Standards	Part number
Applicable connectors	Soldered (included with Unit)	From Fujitsu Socket: FCN-361J024-AU Connector bar: FCN-360C024-J2	---	**C500-CE241**
	Crimped	From Fujitsu Socket: FCN-363J024 Connector bar: FCN-360C024-J2 Contacts: FCN-363J-AU		**C500-CE242**
	Pressure welded	From Fujitsu: FCN-367J024-AU/F		**C500-CE243**
Terminal block connection parts	Special Cable	For C200H-ID215/ID501/OD215 / MD115/MD215 For C200H-ID215/ID501/MD115 / MD215/MD501 □□□ = cable length		**XW2Z-□□□A (See note.)**
	Terminal Block Connector			**XW2B-20G4**
				XW2B-20G5
				XW2D-20G6
				XW2B-20G5-D
				XW2B-40G5-T
	Special Cable			**XW2Z-□□□A (see note)**
	Terminal Block Connector			**XW2C-20G6-IN16**

Note: Refer to the XW2□ Connector-Terminal Block Conversion Unit catalog for details. (Square boxes indicate the cable length.)

Special I/O Modules

■ C200H Special I/O Modules

Name	Specifications	Mountable Racks					Unit No.	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long-distance Racks	SYSMAC BUS Slave Racks			
Temperature Control Modules 	Thermocouple input, time-proportioning PID, or ON/OFF transistor output	Yes	Yes	Yes	No	Yes	0 to 9	U, C, CE	**C200H-TC001**
	Thermocouple input, time-proportioning PID, or ON/OFF voltage output	Yes	Yes	Yes	No	Yes			**C200H-TC002**
	Thermocouple input, PID current output	Yes	Yes	Yes	No	Yes			**C200H-TC003**
	Temperature-resistance thermometer input, time-proportioning PID, or ON/OFF transistor output	Yes	Yes	Yes	No	Yes			**C200H-TC101**
	Temperature-resistance thermometer input, time-proportioning PID, or ON/OFF voltage output	Yes	Yes	Yes	No	Yes			**C200H-TC102**
	Temperature-resistance thermometer input, PID current output	Yes	Yes	Yes	No	Yes			**C200H-TC103**
Data Setting Console 	Used with Temperature Control Modules. Monitoring, setting, and changing present values, set points, alarm values, PID parameters, bank numbers, etc.	---					---	---	**C200H-DSC01**
	Connecting Cable, 2 m	---							**C200H-CN225**
	Connecting Cable, 4 m	---							**C200H-CN425**

(This table continues on the next page.)

C200H Special I/O Modules (continued)

Name	Specifications	Mountable Racks					Unit No.	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long-distance Racks	SYSMAC BUS Slave Racks			
Heat/Cool Temperature Control Modules 	Thermocouple input, time-proportioning PID, or ON/OFF transistor output	Yes	Yes	Yes	No	Yes	0 to 9	U, C, CE	**C200H-TV001**
	Thermocouple input, time-proportioning PID, or ON/OFF voltage output	Yes	Yes	Yes	No	Yes			**C200H-TV002**
	Thermocouple input, PID current output	Yes	Yes	Yes	No	Yes			**C200H-TV003**
	Temperature-resistance thermometer input, time-proportioning PID, or ON/OFF transistor output	Yes	Yes	Yes	No	Yes			**C200H-TV101**
	Temperature-resistance thermometer input, time-proportioning PID, or ON/OFF voltage output	Yes	Yes	Yes	No	Yes			**C200H-TV102**
	Temperature-resistance thermometer input, PID current output	Yes	Yes	Yes	No	Yes			**C200H-TV103**
Temperature Sensor Modules 	Thermocouple input, K/J selectable	Yes	Yes	Yes	No	Yes	0 to 9	U, C	**C200H-TS001**
	Thermocouple input, K/L selectable	Yes	Yes	Yes	No	Yes			**C200H-TS002**
	Temperature-resistance thermometer, JPt 100	Yes	Yes	Yes	No	Yes			**C200H-TS101**
	Temperature-resistance thermometer, Pt 100	Yes	Yes	Yes	No	Yes			**C200H-TS102**

(This table continues on the next page.)

C200H Special I/O Modules (continued)

Name	Specifications	Mountable Racks					Unit No.	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long-distance Racks	SYSMAC BUS Slave Racks			
PID Control Modules 	Voltage output/current input, time-proportioning PID, or ON/OFF transistor output	Yes	Yes	Yes	No	Yes	0 to 9	U, C, CE	**C200H-PID01**
	Voltage output/current input, time-proportioning PID, or ON/OFF voltage output	Yes	Yes	Yes	No	Yes			**C200H-PID02**
	Voltage output/current input, PID current output	Yes	Yes	Yes	No	Yes			**C200H-PID03**
Data Setting Console 	Used with PID Control Modules. Monitoring, setting, and changing present values, set points, alarm values, PID parameters, bank numbers, etc.	---					---	---	**C200H-DSC01**
	Connecting Cable, 2 m	---							**C200H-CN225**
	Connecting Cable, 4 m	---							**C200H-CN425**
Cam Positioner Unit 	48 cam outputs (16 external outputs and 32 internal outputs), Resolver speed: 20 μs (5 kHz)	Yes	Yes	Yes	No	Yes	0 to 9	U, C	**C200H-CP114**

(This table continues on the next page.)

C200H Special I/O Modules (continued)

Name	Specifications	Mountable Racks					Unit No.	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long-distance Racks	SYSMAC BUS Slave Racks			
Data Setting Console 	Used with Cam Positioner Unit. Monitoring, setting, and changing present values, set points, alarm values, PID parameters, bank numbers, etc.	---					---	---	**C200H-DSC01**
	Connecting Cable, 2 m	---							**C200H-CN225**
	Connecting Cable, 4 m	---							**C200H-CN425**
ASCII Modules 	24-Kbyte RAM, 2 RS-232C ports	Yes	Yes	Yes	No	Yes	0 to F	U, C, CE	**C200H-ASC02**
	200-Kbyte RAM, 2 RS-232C ports	Yes	Yes	Yes	No	Yes			**C200H-ASC11**
	200-Kbyte RAM, RS-232C port, RS-422/485 port	Yes	Yes	Yes	No	Yes			**C200H-ASC21**
	200-Kbyte RAM, 3 RS-232C ports (1 terminal only)	Yes	Yes	Yes	No	Yes			**C200H-ASC31**
Analog Input Modules 	4 to 20 mA, 1 to 5/0 to 10 V (selectable), 4 inputs, 1/4,000 resolution	Yes	Yes	Yes	No	Yes	0 to 9	U, C, N, L	**C200H-AD001**
	4 to 20 mA, 1 to 5/0 to 10 V/−10 to +10 V (selectable); 8 inputs; 1/4,000 resolution	Yes	Yes	Yes	No	Yes	0 to F	U, C, N, L, CE	**C200H-AD002**
	4 to 20 mA, 1 to 5/0 to 10 V/−10 to +10 V (selectable); 8 inputs; 1/4,000 resolution	Yes	Yes	Yes	No	Yes			**C200H-AD003**

(This table continues on the next page.)

Special I/O Modules

C200H Special I/O Modules (continued)

Name	Specifications	Mountable Racks					Unit No.	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long-distance Racks	SYSMAC BUS Slave Racks			
Analog Output Modules 	4 to 20 mA, 1 to 5/0 to 10 V (selectable); 2 outputs; 1/4,075 resolution	Yes	Yes	Yes	No	Yes	0 to 9	U, C, N, L	**C200H-DA001**
	4 to 20 mA, −10 to +10 V (selectable), 4 outputs; voltage: 1/8,190 current: 1/4,095	Yes	Yes	Yes	No	Yes	0 to F	U, C, N, L, CE	**C200H-DA002**
	1 to 5 V, −10 to +10 V (selectable), 8 outputs; 1/4,000 resolution	Yes	Yes	Yes	No	Yes			**C200H-DA003**
	4 to 20 mA, 8 outputs; 1/4,000 resolution	Yes	Yes	Yes	No	Yes			**C200H-DA004**
Analog I/O Modules 	2 inputs (4 to 20 mA,1 to 5 V, etc.) 2 outputs (4 to 20 mA, 1 to 5 V, etc.)	Yes	Yes	Yes	No	Yes			**C200H-MAD01**

(This table continues on the next page.)

C200H Special I/O Modules (continued)

Name	Specifications	Mountable Racks					Unit No.	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long-distance Racks	SYSMAC BUS Slave Racks			
High-speed Counter Modules 	One-axis pulse input, counting rate: 50 kcps max.	Yes	Yes	Yes	No	Yes	0 to 9	U, C, CE	**C200H-CT001-V1**
	One-axis pulse input, counting rate: 75 kcps max., line driver compatible	Yes	Yes	Yes	No	Yes			**C200H-CT002**
	Two-axis pulse input, counting rate: 75 kcps max., line driver compatible	Yes	Yes	Yes	No	Yes	0 to F		**C200H-CT021**
	Solder terminal; 40p and a Connector Cover	---					---	---	**C500-CE401**
	Solderless terminal; 40p and a Connector Cover (Crimped)	---							**C500-CE402**
	Pressure welded terminal; 40p	---							**C500-CE403**
	Solder terminal; 40p and a Connector Cover (Horizontal-type)	---							**C500-CE404**
	Crimp-style terminal; 40p and a Connector Cover (Horizontal-type)	---							**C500-CE405**

(This table continues on the next page.)

Special I/O Modules

C200H Special I/O Modules (continued)

Name	Specifications	Mountable Racks					Unit No.	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long-distance Racks	SYSMAC BUS Slave Racks			
Motion Control Modules 	G-language programmable, two-axis analog outputs	Yes	Yes	Yes	No	Yes	0 to F	U, C, CE	**C200H-MC221**
	MC Support Software IBM PC/AT or compatible	---					---	---	**CV500-ZN3AT1-E**
	Connecting Cable: 3.3 m	---							**CV500-CIF01**
	Teaching Box	---						U, C, CE	**CVM1-PRO01**
	Connection cable for Teaching Box: 2 m long	---						CE	**CV500-CN224**
	Memory Pack	---						U, C, CE	**CVM1-MP702**
	Terminal Block Conversion Modulesimplifies wiring.	---						---	**XW2B-20J6-6**
	Connecting Cable for Terminal Block Conversion Unit	---							**XW2Z-100J-F1**
Position Control Modules 	One-axis pulse-train open-collector output	Yes	Yes	Yes	No	Yes	0 to F	U, C, CE	**C200HW-NC113**
	Two-axis pulse-train open-collector output	Yes	Yes	Yes	No	Yes			**C200HW-NC213**
	Four-axis pulse-train open-collector output	Yes	Yes	Yes	No	Yes			**C200HW-NC413**
	NC Support Software (SYSMAC-NCT)	---					---	---	**WS01-NCTF1-E**
	Peripheral Port Connecting Cables for computer	---					---	CE	**CS1W-CN226 (2 m)**

(This table continues on the next page.)

C200H Special I/O Modules (continued)

Name	Specifications	Mountable Racks					Unit No.	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long-distance Racks	SYSMAC BUS Slave Racks			
Position Control Modules 	Peripheral Port Connecting Cables for computer	---					---	CE	**CS1W-CN626 (6 m)**
	RS-232C Port Connecting Cables for computer	---						---	**XW2Z-200S-CV (2 m) NCT V1.11 or earlier**
									XW2Z-500S-CV (5 m) NCT V1.11 or earlier
									XW2Z-200S (2 m) (See note 1.)
									XW2Z-500S (5 m) (See note 1.)
	1-axis Relay Unit for C200HW-NC113								**XW2B-20J6-1B**
	2-axis Relay Unit for C200HW-NC213/NC413								**XW2B-40J6-2B**
	1-axis U, H, M Connecting Cables for C200HW-NC113								**XW2Z-050J-A6 (0.5 m)**
									XW2Z-100J-A6 (1 m)
	2-axis U, H, M Connecting Cables for C200HW-NC213/NC413								**XW2Z-050J-A7 (0.5 m)**
									XW2Z-100J-A7 (1 m)
	1-axis UEP Connecting Cables for C200HW-NC113								**XW2Z-050J-A8 (0.5 m)**
									XW2Z-100J-A8 (1 m)
	2-axis UEP Connecting Cables for C200HW-NC213/NC413	---					---	---	**XW2Z-050J-A9 (0.5 m)**
									XW2Z-100J-A9 (1 m)

(This table continues on the next page.)

Note 1. A 25-pin to 9-pin adapter is required to connected to a 9-pin, D-sub RS-232C connector on an IBM PC/AT or compatible.

Special I/O Modules

C200H Special I/O Modules (continued)

Name	Specifications	Mountable Racks					Unit No.	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long-distance Racks	SYSMAC BUS Slave Racks			
ID Sensor Modules 	Electromagnetic coupling	Yes	Yes	Yes	No	Yes	0 to 9	U, C	**C200H-IDS01-V1**
	Microwave type	Yes	Yes	Yes	No	Yes		---	**C200H-IDS21**
Fuzzy Logic Unit	Use with Fuzzy Support Software	Yes	Yes	Yes	No	Yes	0 to 9	N	**C200H-FZ001**
	Fuzzy Support Software (IBM PC/AT or compatible)	---					---	---	**C500-SU981-E**
DeviceNet Master Unit (See note 1.) 	DeviceNet Remote I/O Master, 300 bits max.	Yes	Yes	Yes	No	No	0 to F	U, C, N, L, CE	**C200HW-DRM21-V1**
DeviceNet I/O Link Unit 	DeviceNet Remote I/O Slave, 64 bits max.	Yes	Yes	Yes	No	No	0 to F	U, C, N, CE	**C200HW-DRT21**
Profibus-DP Master Unit	Profibus-DP Remote I/O Master, 30 words max.	Yes	Yes	Yes	No	No	0 to F	CE	**C200HW-PRM21**
Profibus-DP I/O Link Unit	Profibus-DP Remote I/O Slave, 100 words in max. 100 words out max.	Yes	Yes	Yes	No	No	0 to F	CE	**C200HW-PRT21**
CompoBus/S Master Modules 	CompoBus/S Remote I/O, 256 bits max.	Yes	Yes	Yes	No	No	0 to F	U, C, N, L, CE	**C200HW-SRM21-V1**
PC Link Unit (See note 2.) 	PC Link, single level: 32 Modules, multilevel: 16 Modules	Yes	Yes	Yes	No	No	0 to 9	N, L, CE	**C200H-LK401**

Note 1. The DeviceNet Slaves are allocated up to 2,048 I/O bits (100 words) in the DeviceNet Area.

2. PC Link Modules are allocated up to 1,024 bits (64 words) in the Link Area.

■ CS1 Special I/O Modules

Name	Specifications	Mountable Racks					Unit No.	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long-distance Racks	SYSMAC BUS Slave Racks			
Customizable Counter Modules	Pulse input: 2 pts Pulse output: 2 pts Contact input: 12 pts Contact output: 8 pts	Yes	No	Yes	Yes	No	0 to 95	U, C, CE	**CS1W-HCP22**
	Pulse input: 2 pts Analog output: 2 pts Contact input: 12 pts Contact output: 8 pts								**CS1W-HCA22**
	Contact input: 12 pts Contact output: 8 pts								**CS1W-HIO01**
ID Sensor Modules	Single head unit	Yes	No	Yes	Yes	No	0 to 95	U, CE	**CS1W-V600C11**
	Double head unit	Yes	No	Yes	Yes	No	0 to 94	U, CE	**CS1W-V600C12**
Analog Input Modules	4 inputs (1 to 5 V, 0 to 5 V, 0 to 10 V, −10 to 10 V, 4 to 20 mA) Resolution: 1/4,000	Yes	No	Yes	Yes	No	0 to 95	UC, N, L, CE, CID2	**CS1W-AD041-V1**
	8 inputs (1 to 5 V, 0 to 5 V, 0 to 10 V, −10 to 10 V, 4 to 20 mA) Resolution: 1/4,000	Yes	No	Yes	Yes	No	0 to 95	UC, N, L, CE, CID2	**CS1W-AD081-V1**
Analog Output Modules	4 outputs (1 to 5 V, 0 to 5 V, 0 to 10 V, −10 to 10 V, 4 to 20 mA) Resolution: 1/4,000								**CS1W-DA041**
	8 outputs (1 to 5 V, 0 to 5 V, 0 to 10 V, −10 to 10 V, 4 to 20 mA) Resolution: 1/4,000							U, C, N, L, CE	**CS1W-DA08V**
	8 outputs (4 to 20 mA) Resolution: 1/4,000								**CS1W-DA08C**
Analog I/O Unit 	4 inputs (4 to 20 mA, 1 to 5 V, etc.) 4 outputs (1 to 5 V, 0 to 10 V, etc.)								**CS1W-MAD44**

(This table continues on the next page.)

Special I/O Module

CS1 Special I/O Modules (continued)

Name	Specifications	Mountable Racks					Unit No.	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long-distance Racks	SYSMAC BUS Slave Racks			
Process I/O Modules									
Isolated Thermocouple Input Unit	4 inputs, B, E, J, K, N, R, S, T ±80 mV	Yes	No	Yes	Yes	No	0 to 95	UC, CE, CID2	**CS1W-PTS01-V1**
Isolated Temperature-resistance Thermometer Input Unit	4 inputs, Pt100, JPt								**CS1W-PTS02**
Isolated Temperature-resistance Thermometer Input Unit (Ni508.4 Ω)	4 inputs, Ni508.4Ω								**CS1W-PTS03**
Isolated Two-wire Transmission Device Input Unit	4 inputs, 4 to 20 mA, 1 to 5 V								**CS1W-PTW01**
Isolated DC Input Unit	4 inputs, 4 to 20 mA, 1 to 5 V, 0 to 5 V, ±5 V, 0 to 10 V, ±10 V								**CS1W-PDC01**
Isolated Pulse Input Unit	4 inputs								**CS1W-PPS01**
Isolated Control Output Unit	4 outputs, 4 to 20 mA, 1 to 5 V								**CS1W-PMV01**
Power Transducer Input Unit	8 inputs, 0 to 1 mA, ±1 mA								**CS1W-PTR01**
100-mV DC Input Unit	8 inputs, 0 to 100 mA, ±100 mV								**CS1W-PTR02**
Support Software	Setting tool software for the Processing I/O Modules, OS: Windows 95, 98, NT 4.0 (see note)	---					---	---	**WS02-PUTC1-E**

(This table continues on the next page.)

CS1 Special I/O Modules (continued)

Name	Specifications	Mountable Racks					Unit No.	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long-distance Racks	SYSMAC BUS Slave Racks			
High-speed Counter Modules	Pulse input: 2 pts Counting speed: 500 kcps max.	Yes	No	Yes	Yes	No	0 to 92	U, C, CE	**CS1W-CT021**
	Pulse input: 4 pts Counting speed: 500 kcps max.								**CS1W-CT041**
	SSI encoder input: 2 pts counting speed: 1.5 mHz max.	Yes	No	Yes	Yes	No	0 to 94	CE	**CS1W-CTS21**
Motion Control Modules 	4 axes, analog outputs, G language	Yes	No	Yes	Yes	No	0 to 93	U, C, CE	**CS1W-MC421**
	2 axes, analog outputs, G language								**CS1W-MC221**
MC Support Software	Windows 95, 98, or NT	---					---	---	**WS02-MCTC1-EV2**
Computer Connecting Cables	Peripheral port on CPU Unit	---						CE	**CS1W-CN226 (2 m)**
									CS1W-CN626 (6 m)
	RS-232C port on CPU Unit							---	**XW2Z-200S-CV (2 m)**
									XW2Z-500S-CV (5 m)
Teaching Box		---					---	U, C, CE	**CVM1-PRO01**
Teaching Box Connecting Cable (2 m)								CE	**CV500-CN224**
Memory Pack								U, C, CE	**CVM1-MP702**
MC Terminal Block Conversion Unit for 2 Axes (simplifies wiring I/O connectors)								---	**XW2B-20J6-6**
MC Terminal Block Conversion Unit for 4 Axes (simplifies wiring I/O connectors)									**XW2B-40J6-7**
MC Terminal Block Conversion Unit Cable									**XW2Z-100J-F1**

Note: Setting tool software for the Processing I/O Modules also supports CS1W-AD□□□, CS1WS-DA□□□, and CS1W-MAD44.

CPU Bus Modules

CS1 CPU Bus Modules (Continued)

Name	Specifications	Mountable Racks					Words allocated (CIO 1500 to CIO 1899)	Unit No.	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long-distance Racks	SYSMAC BUS Slave Racks				
Controller Link Modules	Twisted pair	Yes	No	Yes	Yes	No	25 words	0 to F	UC, N, L, CE, CID2	**CS1W-CLK21-V1**
	Optical ring (H-PCF cable)	Yes	No	Yes	Yes	No	25 words			**CS1W-CLK12-V1**
	Optical ring (GI cable)	Yes	No	Yes	Yes	No	25 words			**CS1W-CLK52-V1**
Controller Link Support Board	For PCI Bus (wire type), with Support Software	---					---	---	CE	**3G8F7-CLK21-EV1**
	For PCI Bus (H-PCF optical type), with Support Software	---					---			**3G8F7-CLK12-EV1**
	For PCI Bus (GI optical type)	---					---	---		**3G8F7-CLK52-EV1**
SYSMAC LINK Modules	Coaxial cable (5C-2V cable)	Yes	No	Yes	Yes	No	25 words	0 to F	U, C, CE	**CS1W-SLK21**
	Optical cable (H-PCF cable)						25 words		U, C, N, CE	**CS1W-SLK11**
SYSMAC LINK Support Boards	For PCI Bus (coaxial type), with Support Software	---					---	---	CE	**3G8F7-SLK21-E**
	For PCI Bus (H-PCF optical type), with Support Software	---					---	---		**3G8F7-SLK11-E**
Serial Communications Unit	Two RS-232C Ports	Yes	No	Yes	Yes	No	25 words	0 to F	U, C, N, L, CE	**CS1W-SCU21-V1**
RS-232C–RS-422A Conversion Unit	1 RS-232C port and 1 RS-422A terminal block	---					---	---	---	**NT-AL001**
Ethernet Unit	100Base-TX	Yes	No	Yes	Yes	No	25 words	0 to F	UC, CE, CID2	**CS1W-ETN21**
DeviceNet Unit	Functions as master and/or slave; allows control of 2,048 points max. per master.	Yes	No	Yes	Yes	No	---	0 to F	U, C, CE	**CS1W-DRM21**

(This table continues on the next page.)

CS1 CPU Bus Modules (continued)

Name	Specifications	Mountable Racks					Words allocated (CIO 1500 to CIO 1899)	Unit No.	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long-distance Racks	SYSMAC BUS Slave Racks				
CX-Process	For Loop Control Unit, Programming Tool and Monitor Tool software, OS for Tool: Windows 95, 98, NT 4.0, OS for Monitor: Windows NT 4.0 (License key sold separately)	---					---	---	---	**WS02-LCTC1-E**
License Key for Monitor Software	Hardware key for Monitor software, with license	---					---	---	---	**WS02-LCTK1-EL01**
Peripheral Device Connecting Cables (for peripheral port)	Connects DOS computers, D-Sub 9-pin receptacle (Length: 0.1 m) (Conversion cable to connect RS-232C cable to peripheral port)	---					---	---	CE	**CS1W-CN118**
	Peripheral bus or Host Link, Connects DOS computers, D-Sub 9-pin (Length: 2.0 m)	---					---	---		**CS1W-CN226**
	Peripheral bus or Host Link, Connects DOS computers, D-Sub 9-pin (Length: 6.0 m)	---					---	---		**CS1W-CN626**
Peripheral Device Connecting Cables (for RS-232C port)	Peripheral bus or Host Link, Connects DOS computers, D-Sub 9-pin (Length: 2.0 m)	---					---	---	---	**C200H-CN229-EU** **CBL-202***
USB to Serial 9-pin Adapter	Converts PC USB port to a PC serial 9-pin port for use with Omron serial cables	---					---	---	---	**CS1W-C1F31**

* Available in Canada only.

DeviceNet

■ DeviceNet Configurator

Name	Specifications	Standards	Part number
DeviceNet Configurator	Software only (Windows 95, 98, NT 4.0, or 2000)	---	**WS02-CFDC1-E**
	ISA board with software (Windows 95, 98, or NT 4.0)	---	**3G8F5-DRM21-E**
	PC card with software (Windows 95, 98, ME, 2000, XP)		**3G8E2-DRM21-EV1**

■ Setting and Monitoring Software

Name	Specifications	Standards	Part number
NX-Server	DDE edition	---	**WS02-NXD1-E**

■ DeviceNet Slaves

Slave	Specifications		Standards	Part number
Programmable Slaves	Controller with SYSMAC CPM2C CPU No. of remote I/O link points: 1,024 max. Provides CompoBus/S Master.	4 transistor outputs (sinking)	U, C, CE	**CPM2C-S100C-DRT**
		4 transistor outputs (sourcing)		**CPM2C-S110C-DRT**
I/O Link Modules	512 internal inputs/512 internal outputs (between CS1 or C200HX/HG/HE PLC and Master)			**C200HW-DRT21**
	16 internal inputs/16 internal outputs (between CQM1/CQM1H PLC and Master)			**CQM1-DRT21**
	32 internal inputs/32 internal outputs (between CPM1A/CPM2A PLC and Master)			**CPM1A-DRT21**
Remote Transistor I/O Terminals	8 inputs (NPN, + common)			**DRT1-ID08**
	8 inputs (PNP, – common)			**DRT1-ID08-1**
	8 outputs (NPN, – common)			**DRT1-OD08**
	8 outputs (PNP, + common)			**DRT1-OD08-1**
	16 inputs (NPN, + common)			**DRT1-ID16**
	16 inputs (PNP, – common)			**DRT1-ID16-1**
	16 outputs (NPN, – common)			**DRT1-OD16**
	16 outputs (PNP, + common)			**DRT1-OD16-1**
	8 input points (NPN with + common) 8 input points (NPN with – common)			**DRT1-MD16**

(This table continues on the next page.)

DeviceNet Slaves (continued)

Slave		Specifications	Standards	Part number
Remote Transistor I/O Terminals with 3-tier Terminal Block	Common power supply for communications and internal circuits	16 input points (NPN with + common)	---	**DRT1-ID16TA**
		16 input points (PNP with – common)		**DRT1-ID16TA-1**
		8 input points (NPN with + common) 8 output points (NPN with – common)		**DRT1-MD16TA**
		8 input points (PNP with – common) 8 output points (PNP with + common)		**DRT1-MD16TA-1**
		16 output points (NPN with – common)		**DRT1-OD16TA**
		16 output points (PNP with + common)		**DRT1-OD16TA-1**
	Separate power supplies for communications and internal circuits	16 inputs (NPN, + common)	CE	**DRT1-ID16T**
		16 inputs (PNP, – common)		**DRT1-ID16T-1**
		16 I/O (NPN, – common)		**DRT1-MD16T**
		16 I/O (PNP, + common)		**DRT1-MD16T-1**
		16 outputs (NPN, – common)		**DRT1-OD16T**
		16 outputs (PNP, + common)		**DRT1-OD16T-1**
Remote Transistor I/O Terminals with Connectors		32 inputs (NPN, + common)		**DRT1-ID32ML**
		32 inputs (PNP, – common)		**DRT1-ID32ML-1**
		32 outputs (NPN, – common)		**DRT1-OD32ML**
		32 outputs (PNP, + common)		**DRT1-OD32ML-1**
		32 I/O (NPN, – common)		**DRT1-MD32ML**
		32 I/O (PNP, + common)		**DRT1-MD32ML-1**
	Mounting Bracket B	---	---	**SRT2-ATT02**
Remote Adapters		16 inputs (NPN, + common)	U, C, CE	**DRT1-ID16X**
		16 inputs (PNP, – common)		**DRT1-ID16X-1**
		16 outputs (NPN, – common)		**DRT1-OD16X**
		16 outputs (PNP, + common)		**DRT1-OD16X-1**
	Flat Cable Connectors with MIL Plugs	Straight DIP pins	---	**XG4A-2031**
		L-shaped DIP pins		**XG4A-2034**
DeviceNet Fiber Amplifier Sensor Communications Unit		Connects to up to 16 Fiber Amplifier Modules for the E3X-DA-N		**E3X-DRT21**
		Fiber Amplifier Unit (See note 1.)		**E3X-DA6-P**
		Reduced-wiring Connector (See note 1.)		**E3X-CN02**
		Terminal Unit		**E39-TM1**
Sensor Terminals (for 2-wire Sensors)		8 sensor I/O points (NPN), 2 inputs per Sensor		**DRT1-HD16S**
		8 sensor I/O points (PNP)		**DRT1-ND16S**
	Cable Connectors	0.3 to 0.5 mm^2 (See note 2.)		**XS8A-0441**
		0.14 to 0.2 mm^2 (See note 2.)		**XS8A-0442**

(This table continues on the next page.)

DeviceNet Slaves (continued)

Slave	Specifications		Standards	Part number
Water-resistant Terminals (transistor I/O)	4 inputs (NPN, + common)		CE	**DRT1-ID04CL**
	4 inputs (PNP, – common)			**DRT1-ID04CL-1**
	8 inputs (NPN, + common)			**DRT1-ID08CL**
	8 inputs (PNP, – common)			**DRT1-ID08CL-1**
	4 outputs (NPN, – common)			**DRT1-OD04CL**
	4 outputs (PNP, + common)			**DRT1-OD04CL-1**
	8 outputs (NPN, – common)			**DRT1-OD08CL**
	8 outputs (PNP, + common)			**DRT1-OD08CL-1**
Environmentally Resistant Transistor I/O Terminals	8 inputs (NPN, + common)			**DRT1-ID08C**
	16 inputs (NPN, + common)			**DRT1-HD16C**
	16 inputs (PNP, – common)			**DRT1-HD16C-1**
	8 outputs (NPN, – common)			**DRT1-OD08C**
	16 outputs (NPN, – common)			**DRT1-WD16C**
	16 outputs (PNP, + common)			**DRT1-WD16C-1**
	8 inputs/8 outputs (NPN, + common/– common)			**DRT1-MD16C**
	8 inputs/8 outputs (PNP, – common/+ common)			**DRT1-MD16C-1**
B7AC Interface Terminal	3 sets of 10 inputs (branching to 3 B7AC Link Terminals)		U, C, CE	**DRT1-B7AC**
Analog Input Terminals	2 or 4 inputs (2 or 4 words) (voltage or current)		CE	**DRT1-AD04**
	4 inputs (4 words) (voltage or current)			**DRT1-AD04H**
Analog Output Terminals	2 outputs (2 words)	Current: 0 to 20 mA, 4 to 20 mA		**DRT1-DA02**
		Voltage: 1 to 5 V, 0 to 10 V, – 10 to 10 V		
Temperature Input Terminals	4 inputs (4 words)	Inputs: R, S, K1, K2, J1, J2, T, E, B, N, L1, L2, U, W, PLII		**DRT1-TS04T**
		Inputs: Pt100, JPt100		**DRT1-TS04P**
RS-232C Unit	Two RS-232C ports, 16 inputs (signal status)		U, C, CE	**DRT1-232C**

■ Smart DeviceNet I/O Terminals

Basic Modules

Product	Specifications		Standards	Part number
Smart I/O basic Modules automatically collect network status and connected device performance information	16 inputs	NPN	cULus, CE	**DRT2-ID16**
	16 inputs	PNP		**DRT2-ID16-1**
	16 outputs	NPN		**DRT2-OD16**
	16 outputs	PNP		**DRT2-OD16-1**
3-tier Terminal Block Types	16 inputs	NPN		**DRT2-ID16TA**
	16 inputs	PNP		**DRT2-ID16TA-1**
	16 outputs	NPN		**DRT2-OD16TA**
	16 outputs	PNP		**DRT2-OD16TA-1**
	8 inputs 8 outputs	NPN NPN		**DRT2-MD16TA**
	8 inputs 8 outputs	PNP PNP		**DRT2-MD16TA-1**
MIL Connector Terminal Block Types	32 inputs	NPN		**DRT2-ID32ML**
	32 inputs	PNP		**DRT2-ID32ML-1**
	32 outputs	NPN		**DRT2-OD32ML**
	32 outputs	PNP		**DRT2-OD32ML-1**
	16 inputs 16 outputs	NPN NPN		**DRT2-MD32ML**
	16 inputs 16 outputs	PNP PNP		**DRT2-MD32ML-1**
Relay Output Terminal Block	16 relay outputs			**DRT2-ROS16**

Expansion Modules

Product	Specifications		Standards	Part number
Smart expansion I/O Modules provide mix and match flexibility in distributed I/O configuration	8 inputs	NPN	cULus, CE	**XWT-ID08**
	8 inputs	PNP		**XWT-ID08-1**
	8 outputs	NPN		**XWT-OD08**
	8 outputs	PNP		**XWT-OD08-1**
	16 inputs	NPN		**XWT-ID16**
	16 inputs	PNP		**XWT-ID16-1**
	16 outputs	NPN		**XWT-OD16**
	16 outputs	PNP		**XWT-OD16-1**

Analog I/O Terminal

Product	Specifications		Standards	Part number
Analog Input Terminal	4 inputs (0 to 5 V, 1 to 5 V, 0 to 10 V, ±10 V, 0 to 20 mA, 4 to 20 mA)	Resolution: 12 bit; 1/6000; 4 ms max./4 pt conversion time	cULus, CE, CL1 Div2	**DRT2-AD04**
Analog Output Terminal	2 outputs (0 to 5 V, 1 to 5 V, 0 to 10 V, ±10 V, 0 to 20 mA, 4 to 20 mA)	Resolution: 12 bit; 6000; 2 ms/pt conversion time		**DDRT2-DA02**

IP67 Rated Transistor Terminals with M12 Connectors

Product	Specifications		Standards	Part number
Terminals with IP67-rated water-washdown resistance	16 inputs	NPN	cULus, CE	**DRT2-HD16C**
	16 inputs	PNP		**DRT2-HD16C-1**
	8 inputs	NPN		**DRT2-ID08C**
	8 inputs	PNP		**DRT2-ID08C-1**
	8 outputs	NPN		**DRT2-OD08C**
	8 outputs	PNP		**DRT2-OD08C-1**

■ DeviceNet Enhanced Products

Product	Specifications		Standards	Part number
Vision sensors	Single camera system		CE	**F150-C10E-2-DRT**
	Two camera system		CE	**F150-C10E-3-DRT**
Operator interface terminal adapter for NT31/NT631 touch screens	Combined with CS1 slave, up to 15 terminals/network; with CJ1slave, up to 41 terminals/network		cULus, CE	**NT-DRT21**
Communications module for fiber-optic sensor block	Up to 16 E3X-DA-N amplifiers form a wire saving sensor input slave block		cRUus	**E3X-DRT21**
Temperature/process controllers, single loop, 1/8 DIN	Controller with LED display; requires plug-in control output modules; to use a heater burnout alarm, order a current transformer		RU, CSA, CE	**E5EK-AA2-DRT21**
Multi-zone temperature controller, 8 loops, optional display unit	Heating mode, voltage output, heater open circuit	Thermo-couple RTD	CE	**E5EZ-8AQHD1TCB-V2 E5ZE-8AQHD1PB-V2**
	Heating mode, voltage output,	Thermo-couple RTD	CE	**E5EZ-8AQAD1TCB-V2 E5ZE-8AQAD1PB-V2**
	Heating mode, voltage output,	Thermo-couple RTD	CE	**E5EZ-8ACAD1TCB-V2 E5ZE-8ACAD1PB-V2**
	Heating mode, voltage output, heater open circuit	Thermo-couple RTD	CE	**E5EZ-8VQHD1TCB-V2 E5ZE-8VQHD1PB-V2**
	Heating mode, voltage output,	Thermo-couple RTD	CE	**E5EZ-8VQAD1TCB-V2 E5ZE-8VQAD1PB-V2**
	Heating mode, voltage output,	Thermo-couple RTD	CE	**E5EZ-8VCAD1TCB-V2 E5ZE-8VCAD1PB-V2**
Communications module for multi-loop (2 to 32) plug-in temperature controller	Set parameters and montitor status via DeviceNet for all loops		cRUus, CE	**E5EK-AA2-DRT21**
Intelligent flag ID system	Set addresses and monitor work-in-process based on unique ID via DeviceNet: reads 24 bits of data max.: writes 16 bits of data max.		cRUus, CE	**V600-HAM42-DRT**
	M12 threaded sensing head		-	**V600-HS51**
	30.5 x 18 x 10 mm head		-	**V600-HS61**
	53 x 50 x 23 mm head		-	**V600-HS63**
	100 x 100 x 30 mm head		-	**V600-HS67**
AC inverter, MV-series adapter	Monitor Run/Stop and operating conditions and make changes in set values from a PLC via DeviceNet using this adapter for all 3G3MV inverters		RU, CSA, CE	**3G3MV-PDRT2**
AC inverter, G5-series adapter	Monitor Run/Stop and operating conditions and make changes in set values from a PLC via DeviceNet using this adapter for all G5 inverters		cRUus	**SI-N1**
AC inverter, RV-series adapter	Monitor Run/Stop and operating conditions and make changes in set values from a PLC via DeviceNet using this adapter for all RV inverters		cRUus	**3G3RV-PDRT2**

(This table continues on the next page.)

DeviceNet Enhanced Products (continued)

Product	Specifications	Standards	Part number
Servo drive, W-series adapter	Communicate positioning commands, drive parameters, positioning data, motor characteristics etc, between the W-series servo and a DeviceNet master. Commands received via DeviceNet are output to the W-series servo drive	cULus, CE	**R88A-NCW152-DRT**
High-Density Temperature Controller	DeviceNet-compatible 8-loop Temperature Controller	---	**E5ZE-8□D1-□B-V2**
Multi-function Compact Inverter DeviceNet Communications Unit	DeviceNet Communications Unit for the 3G3MV AC Inverters	---	**3G3MV-PDRT1-SINV**
High-Function General-purpose Inverter DeviceNet Communications Module	DeviceNet Communications Unit for the 3G3RV and 3G3FV AC Inverters	---	**3G3FV-PDRT1-SIN**
Vision Sensor Controller	DeviceNet-compatible F150-3 Vision System	---	**F150-C10V3-DRT**
Super-compact Signal Converter Bases	DeviceNet-compatible Bases	---	**K3FM-BI□/BO□**
DeviceNet Wireless Modules	DeviceNet Wireless Master Module 1600 input/1600 output bits	---	**WD30-ME**
		---	**WD30-ME01**
	DeviceNet Wireless Slave Module 512 input/512 output bits	---	**WD30-SE**
		---	**WD30-SE01**

Note: 1. Order Fiber Amplifier Modules and Reduced-wiring Connectors as sets.

2. XS8A-0441 and XS8A-0442 Connectors are packed in sets of 10. Order these Connectors in multiples of 10.

■ DeviceNet Multiple I/O Terminal Modules

Name		I/O points	Specifications	Standards	Part number
Communications Unit		---	Total Slave I/O points: 1,024 max.	U, C, CE	**DRT1-COM**
Digital I/O Modules	Modules with Terminal Blocks	16 inputs	NPN (+ common)		**GT1-ID16**
		16 inputs	PNP (– common)		**GT1-ID16-1**
		16 outputs	NPN (– common)		**GT1-OD16**
		16 outputs	PNP (+ common)		**GT1-OD16-1**
	Modules with MOLEX Connectors	16 inputs	NPN (+ common)		**GT1-ID16MX**
		16 inputs	PNP (– common)		**GT1-ID16MX-1**
		16 outputs	NPN (– common)		**GT1-OD16MX**
		16 outputs	PNP (+ common)		**GT1-OD16MX-1**
	Modules with Fujitsu Connectors	16 inputs	NPN (+ common)		**GT1-ID16ML**
		16 inputs	PNP (– common)		**GT1-ID16ML-1**
		16 outputs	NPN (– common)		**GT1-OD16ML**
		16 outputs	PNP (+ common)		**GT1-OD16ML-1**
	Modules with D-Sub 25-pin Connectors	16 inputs	NPN (+ common)		**GT1-ID16DS**
		16 inputs	PNP (– common)		**GT1-ID16DS-1**
		16 outputs	NPN (– common)		**GT1-OD16DS**
		16 outputs	PNP (+ common)		**GT1-OD16DS-1**
	Modules with High-density Fujitsu Connectors	32 inputs	NPN (+ common)		**GT1-ID32ML**
		32 inputs	PNP (– common)		**GT1-ID32ML-1**
		32 outputs	NPN (– common)		**GT1-OD32ML**
		32 outputs	PNP (+ common)		**GT1-OD32ML-1**
Analog Input Modules		8 inputs	MOLEX connector		**GT1-AD08MX**
		4 inputs	Terminal block		**GT1-AD04**
Analog Output Modules		4 outputs	MOLEX connector		**GT1-DA04MX**
		4 outputs	Terminal block		**GT1-DA04**
Temperature Input Modules		4 inputs	Thermocouple		**GT1-TS04T**
		4 inputs	Platinum resistance thermometer		**GT1-TS04P**
Counter Unit		1 input, 2 outputs	1 input, 2 outputs Counter Unit with encoder input	CE	**GT1-CT01**
Relay Output Modules		8 outputs	8 relay outputs, 2A, SPST-NO	U, C, CE	**GT1-ROP08**
		16 outputs	8 relay outputs, 5A, SPST-NO		**GT1-ROS16**
I/O Unit Connecting Cable		---	1 m	---	**GCN1-100**

■ CompoBus/S Slave Modules

Name	Specifications	Standards	Part number
I/O Link Modules	For CPM2C; 8 input points, 8 output points	CE	**CPM2C-SRT21**
	For CPM1A/CPM2A; 8 input points, 8 output points	U, C, CE	**CPM1A-SRT21**
Remote I/O Terminals with Transistors	4 input points, NPN (+ common)	U, C, CE	**SRT2-ID04**
	4 input points, PNP (– common)		**SRT2-ID04-1**
	4 output points, NPN (– common)		**SRT2-OD04**
	4 output points, PNP (+ common)		**SRT2-OD04-1**
	8 input points, NPN (+ common)		**SRT2-ID08**
	8 input points, PNP (– common)		**SRT2-ID08-1**
	8 output points, NPN (– common)		**SRT2-OD08**
	8 output points, PNP (+ common)		**SRT2-OD08-1**
	16 input points, NPN (+ common)		**SRT2-ID16**
	16 input points, PNP (– common)		**SRT2-ID16-1**
	16 output points, NPN (– common)		**SRT2-OD16**
	16 output points, PNP (+ common)		**SRT2-OD16-1**
Remote I/O Terminals with Transistors and 3-tier Terminal Block	16 input points, NPN (+ common)		**SRT2-ID16T**
	16 input points, PNP (– common)		**SRT2-ID16T-1**
	16 I/O points, NPN (inputs: + common, outputs: – common)		**SRT2-MD16T**
	16 I/O points, PNP (inputs: – common, outputs: + common)		**SRT2-MD16T-1**
	16 output points, NPN (– common)		**SRT2-OD16T**
	16 output points, PNP (+ common)		**SRT2-OD16T-1**
Remote Input Terminals with Transistors and Connectors (4/8 points)	4 input points, NPN (+ common)	CE	**SRT2-ID04MX**
	8 input points, PNP (+ common)		**SRT2-ID08MX**
Remote Output Terminals with Relays	8 relay output points	U, C, CE	**SRT2-ROC08**
	16 relay output points		**SRT2-ROC16**
	8 power MOSFET relay output points		**SRT2-ROF08**
	16 power MOSFET relay output points		**SRT2-ROF16**

CompoBus/S Slave Modules (Continued)

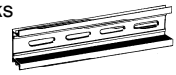
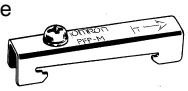
Name	Specifications	Standards	Part number
Remote I/O Terminals with Transistors and Connectors	32 input points, NPN (+ common)	CE	**SRT2-ID32ML**
	32 input points, PNP (– common)		**SRT2-ID32ML-1**
	32 output points, NPN (– common)		**SRT2-OD32ML**
	32 output points, PNP (+ common)		**SRT2-OD32ML-1**
	32 I/O points, NPN (inputs: + common, outputs: – common)		**SRT2-MD32ML**
	32 I/O points, PNP (inputs: – common, outputs: + common)		**SRT2-MD32ML-1**
	8 input points, NPN (+ common)	U, C, CE	**SRT2-VID08S**
	8 input points, PNP (– common)		**SRT2-VID08S-1**
	8 output points, NPN (– common)		**SRT2-VOD08S**
	8 output points, PNP (+ common)		**SRT2-VOD08S-1**
	16 input points, NPN (+ common)		**SRT2-VID16ML**
	16 input points, PNP (– common)		**SRT2-VID16ML-1**
	16 output points, NPN (– common)		**SRT2-VOD16ML**
	16 output points, PNP (+ common)		**SRT2-VOD16ML-1**
	Mounting Bracket A		**SRT2-ATT01**
	Mounting Bracket B		**SRT2-ATT02**
Waterproof Terminals (with Transistors)	4 input points, NPN (+ common)	CE	**SRT2-ID04CL**
	4 input points, PNP (– common)		**SRT2-ID04CL-1**
	4 output points, NPN (– common)		**SRT2-OD04CL**
	4 output points, PNP (+ common)		**SRT2-OD04CL-1**
	8 input points, NPN (+ common)		**SRT2-ID08CL**
	8 input points, PNP (– common)		**SRT2-ID08CL-1**
	8 output points, NPN (– common)		**SRT2-OD08CL**
	8 output points, PNP (+ common)		**SRT2-OD08CL-1**
CompoBus/S Fiber Amplifier Sensor Communication Unit	Connects to up to 14 Fiber Amplifier Modules		**E3X-SRT21**
Sensor Terminals	8 Sensor inputs (NPN)	---	**SRT2-ID08S**
	4 remote-teaching Sensor inputs, 4 outputs (NPN)		**SRT2-ND08S**
	8 Sensor outputs (NPN)		**SRT2-OD08S**
Analog Input Terminal	1 to 4 inputs (set via DIP switch)	U, C. CE	**SRT2-AD04**
Analog Output Terminal	1 or 2 outputs (set via DIP switch)		**SRT2-DA02**
Remote I/O Modules	16 input points, NPN (+ common)	---	**SRT2-ID16P**
	16 output points, NPN (– common)		**SRT2-OD16P**
Positioner Drivers (Cannot be used in Long-distance Communications Mode.)	200-VAC input, 6 A	U, CE, CU	**FND-X06H-SRT**
	200-VAC input, 12 A		**FND-X12H-SRT**
	200-VAC input, 25 A		**FND-X25H-SRT**
	200-VAC input, 50 A		**FND-X50H-SRT**
	100-VAC input, 6 A		**FND-X06L-SRT**
	100-VAC input, 12 A		**FND-X12L-SRT**

■ Optional Products

Name	Specifications		Standards	Part number
I/O Unit Cover 	Cover for 10-pin terminal block		---	**C200H-COV11**
Terminal Block Covers 	Short protection for 10-pin terminal block (package of 10 covers); 8 pts			**C200H-COV02**
	Short protection for 19-pin terminal block (package of 10 covers); 12 pts			**C200H-COV03**
C200H Unit Connector Cover 	Protective cover for unused I/O Connecting Cable connectors			**C500-COV01**
CS1 Special I/O Unit Connector Cover	Protective cover for unused I/O Connecting Cable connectors			**CV500-COV01**
C200H Expansion I/O Backplane Insulation Plates 	Electrically insulate C200H Expansion I/O Backplanes from the control panel to increase noise resistance.	For 3-slot Backplane	N, L, CE	**C200HW-ATT32**
		For 5-slot Backplane		**C200HW-ATT52**
		For 8-slot Backplane		**C200HW-ATT82**
		For 10-slot Backplane		**C200HW-ATTA2**
Relay 	24 VDC, for C200H-OC221/OC222/OC223/OC224/OC225		---	**G6B-1174P-FD-US**
Programming Console Mounting Bracket 	Used to attach C200H-PRO27-E Hand-held Programming Console to a panel.			**C200H-ATT01**
Space Unit	Used for empty I/O slot.		---	**C200H-SP001**
Terminating Resistor (See note.)	Mounts to end of CS1 Long-distance Expansion Rack		U, C	**CV500-TER01**

Note: Two Terminating Resistors are included with the CS1W-IC102 I/O Control Unit.

Mounting Rails and Accessories

Name	Specifications	Standards	Part number
DIN Track Mounting Bracket 	1 set (2 included)	---	**C200H-DIN01**
DIN Tracks 	Length: 50 cm; height: 7.3 cm		**PFP-50N**
	Length: 1 m; height: 7.3 cm		**PFP-100N**
	Length: 50 cm; height: 16 mm		**PFP-100N2**
End Plate 	---		**PFP-M**
Spacer 	---		**PFP-S**

OMRON

Certain Terms and Conditions of Sale

1. Offer; Acceptance. These terms and conditions (these "Terms") are deemed part of all catalogs, manuals or other documents, whether electronic or in writing, relating to the sale of goods or services (collectively, the "Goods") by Omron Electronics LLC and its subsidiary companies ("Seller"). Seller hereby objects to any terms or conditions proposed in Buyer's purchase order or other documents which are inconsistent with, or in addition to, these Terms. Please contact your Omron representative to confirm any additional terms for sales from your Omron company.
2. Prices. All prices stated are current, subject to change without notice by Seller. Buyer agrees to pay the price in effect at time of shipment.
3. Discounts. Cash discounts, if any, will apply only on the net amount of invoices sent to Buyer after deducting transportation charges, taxes and duties, and will be allowed only if (i) the invoice is paid according to Seller's payment terms and (ii) Buyer has no past due amounts owing to Seller.
4. Orders. Seller will accept no order less than $200 net billing.
5. Governmental Approvals. Buyer shall be responsible for, and shall bear all costs involved in, obtaining any government approvals required for the importation or sale of the Goods.
6. Taxes. All taxes, duties and other governmental charges (other than general real property and income taxes), including any interest or penalties thereon, imposed directly or indirectly on Seller or required to be collected directly or indirectly by Seller for the manufacture, production, sale, delivery, importation, consumption or use of the Goods sold hereunder (including customs duties and sales, excise, use, turnover and license taxes) shall be charged to and remitted by Buyer to Seller.
7. Financial. If the financial position of Buyer at any time becomes unsatisfactory to Seller, Seller reserves the right to stop shipments or require satisfactory security or payment in advance. If Buyer fails to make payment or otherwise comply with these Terms or any related agreement, Seller may (without liability and in addition to other remedies) cancel any unshipped portion of Goods sold hereunder and stop any Goods in transit until Buyer pays all amounts, including amounts payable hereunder, whether or not then due, which are owing to it by Buyer. Buyer shall in any event remain liable for all unpaid accounts.
8. Cancellation; Etc. Orders are not subject to rescheduling or cancellation unless Buyer indemnifies Seller fully against all costs or expenses arising in connection therewith.
9. Force Majeure. Seller shall not be liable for any delay or failure in delivery resulting from causes beyond its control, including earthquakes, fires, floods, strikes or other labor disputes, shortage of labor or materials, accidents to machinery, acts of sabotage, riots, delay in or lack of transportation or the requirements of any government authority.
10. Shipping; Delivery. Unless otherwise expressly agreed in writing by Seller:
    a. Shipments shall be by a carrier selected by Seller;
    b. Such carrier shall act as the agent of Buyer and delivery to such carrier shall constitute delivery to Buyer;
    c. All sales and shipments of Goods shall be FOB shipping point (unless otherwise stated in writing by Seller), at which point title to and all risk of loss of the Goods shall pass from Seller to Buyer, provided that Seller shall retain a security interest in the Goods until the full purchase price is paid by Buyer;
    d. Delivery and shipping dates are estimates only.
    e. Seller will package Goods as it deems proper for protection against normal handling and extra charges apply to special conditions.
11. Claims. Any claim by Buyer against Seller for shortage or damage to the Goods occurring before delivery to the carrier must be presented in writing to Seller within 30 days of receipt of shipment and include the original transportation bill signed by the carrier noting that the carrier received the Goods from Seller in the condition claimed.
12. Warranties. (a) Exclusive Warranty. Seller's exclusive warranty is that the Goods will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Seller (or such other period expressed in writing by Seller). Seller disclaims all other warranties, express or implied. (b) Limitations. SELLER MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE GOODS. BUYER ACKNOWLEDGES THAT IT ALONE HAS DETERMINED THAT THE GOODS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE. Seller further disclaims all warranties and responsibility of any type for claims or expenses based on infringement by the Goods or otherwise of any intellectual property right. (c) Buyer Remedy. Seller's sole obligation hereunder shall be to replace (in the form originally shipped with Buyer responsible for labor charges for removal or replacement thereof) the non-complying Good or, at Seller's election, to repay or credit Buyer an amount equal to the purchase price of the Good; provided that in no event shall Seller be responsible for warranty, repair, indemnity or any other claims or expenses regarding the Goods unless Seller's analysis confirms that the Goods were properly handled, stored, installed and maintained and not subject to contamination, abuse, misuse or inappropriate modification. Return of any goods by Buyer must be approved in writing by Seller before shipment. Seller shall not be liable for the suitability or unsuitability or the results from the use of Goods in combination with any electrical or electronic components, circuits, system assemblies or any other materials or substances or environments. Any advice, recommendations or information given orally or in writing, are not to be construed as an amendment or addition to the above warranty.
13. Damage Limits; Etc. SELLER SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE GOODS, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE OR STRICT LIABILITY. Further, in no event shall liability of Seller exceed the individual price of the Good on which liability is asserted.
14. Indemnities. Buyer shall indemnify and hold harmless Seller, its affiliates and its employees from and against all liabilities, losses, claims, costs and expenses (including attorney's fees and expenses) related to any claim, investigation, litigation or proceeding (whether or not Seller is a party) which arises or is alleged to arise from Buyer's acts or omissions under these Terms or in any way with respect to the Goods. Without limiting the foregoing, Buyer (at its own expense) shall indemnify and hold harmless Seller and defend or settle any action brought against Seller to the extent that it is based on a claim that any Good made to Buyer specifications infringed intellectual property rights of another party.
15. Property; Confidentiality. The intellectual property embodied in the Goods is the exclusive property of Seller and its affiliates and Buyer shall not attempt to duplicate it in any way without the written permission of Seller. Notwithstanding any charges to Buyer for engineering or tooling, all engineering and tooling shall remain the exclusive property of Seller. All information and materials supplied by Seller to Buyer relating to the Goods are confidential and proprietary, and Buyer shall limit distribution thereof to its trusted employees and strictly prevent disclosure to any third party.
16. Miscellaneous. (a) Waiver. No failure or delay by Seller in exercising any right and no course of dealing between Buyer and Seller shall operate as a waiver of rights by Seller. (b) Assignment. Buyer may not assign its rights hereunder without Seller's written consent. (c) Amendment. These Terms constitute the entire agreement between Buyer and Seller relating to the Goods, and no provision may be changed or waived unless in writing signed by the parties. (d) Severability. If any provision hereof is rendered ineffective or invalid, such provision shall not invalidate any other provision. (e) Setoff. Buyer shall have no right to set off any amounts against the amount owing in respect of this invoice. (f) As used herein, "including" means "including without limitation".

Certain Precautions on Specifications and Use

1. Suitability of Use. Seller shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Good in the Buyer's application or use of the Good. At Buyer's request, Seller will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Good. This information by itself is not sufficient for a complete determination of the suitability of the Good in combination with the end product, machine, system, or other application or use. The following are some examples of applications for which particular attention must be given. This is not intended to be an exhaustive list of all possible uses of this Good, nor is it intended to imply that the uses listed may be suitable for this Good:
    (i) Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this document.
    (ii) Energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
    (iii) Systems, machines and equipment that could present a risk to life or property. Please know and observe all prohibitions of use applicable to this Good.

    NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE SELLER'S PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.
2. Programmable Products. Seller shall not be responsible for the user's programming of a programmable Good, or any consequence thereof.
3. Performance Data. Performance data given in this catalog is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of Seller's test conditions, and the user must correlate it to actual application requirements. Actual performance is subject to the Seller's Warranty and Limitations of Liability.
4. Change in Specifications. Product specifications and accessories may be changed at any time based on improvements and other reasons. It is our practice to change part numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the Good may be changed without any notice. When in doubt, special part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Seller's representative at any time to confirm actual specifications of purchased Good.
5. Errors and Omissions. The information in this catalog has been carefully checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors, or omissions.

OMRON

Complete “Terms and Conditions of Sale” for product purchase and use are on Omron’s website at www.omron.com/oei – under the “About Us” tab, in the Legal Matters section.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.
To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

OMRON

OMRON ELECTRONICS LLC
One Commerce Drive
Schaumburg, IL 60173
847-843-7900
For US technical support or other inquiries:
800-556-6766

OMRON CANADA, INC.
885 Milner Avenue
Toronto, Ontario M1B 5V8
416-286-6465

OMRON ON-LINE
Global - http://www.omron.com
USA - http://www.omron.com/oei
Canada - http://www.omron.ca

Cat. No. R301-E3-01 2/04 Specifications subject to change without notice Printed in USA